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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/688,185	10/20/2003	Cheng-Fang Hsiao	1496-941	6865	
7590 09/12/2007 John S. Egbert			EXAMINER		
Harrison & Egbert 412 Main Street, 7th Floor Houston, TX 77002			NGUYEN, HONG VINH T		
			ART UNIT	PAPER NUMBER	
,			2834		
			MAIL DATE	DELIVERY MODE	
			09/12/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)				
Office Action Summary		10/688,185	HSIAO, CHENG-FANG				
		Examiner	Art Unit				
		Hong-Vinh Nguyen	2834				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with	h the correspondence add	dress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC, 36(a). In no event, however, may a reposite apply and will expire SIX (6) MONT, cause the application to become ABA	ATION. ply be timely filed HS from the mailing date of this co NDONED (35 U.S.C. § 133).				
Status							
1)🛛	Responsive to communication(s) filed on <u>05 De</u>	<u>ecember 2006</u> .					
2a)[_	This action is FINAL . 2b) ☑ This	action is non-final.					
3)	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D.	11, 453 O.G. 213.				
Disposit	ion of Claims						
4)⊠	4)⊠ Claim(s) <u>3</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	5) Claim(s) is/are allowed.						
· · · · · · · · · · · · · · · · · · ·	6)⊠ Claim(s) <u>3</u> is/are rejected.						
·	Claim(s) is/are objected to.						
8)[]	Claim(s) are subject to restriction and/or	r election requirement.					
Applicat	ion Papers						
9)	The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>05 December 2006</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached	Office Action or form PT	O-152.			
Priority (ınder 35 U.S.C. § 119						
-	Acknowledgment is made of a claim for foreign ☑ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. §	119(a)-(d) or (f).				
	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents	s have been received in Ap	plication No				
	3. Copies of the certified copies of the prior	•	eceived in this National	Stage			
	application from the International Bureau						
- 3	See the attached detailed Office action for a list	of the centiled copies not r	eceivea.				
Attachmer	• •						
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)		ummary (PTO-413) /Mail Date				
3) 🔲 Infor	mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date		formal Patent Application				

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DETAILED ACTION

Specification

The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Drawings

The drawings were received on 12/05/2006. These drawings are unacceptable per draftsperson's review. Furthermore, the numerical label (4) for the **upper housing** is missing from Fig. 1.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hong et al. (US Pub. 2002/0125842 A1 hereinafter "Hong"), in view of Mayumi (US Pub. 2002/0140303 A1).

Hong discloses a vibration motor (100) comprising a housing (191);

a stator (110) mounted in said housing, said stator having a rotor mounting slot formed centrally therein; said stator having a series of pole teeth (115,116) formed thereon and facing toward said rotor mounting slot, said series of pole teeth arranged at an interval, said inner wall having a plurality of coil plates;

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a rotor (120) mounted in said rotor mounting slot, said rotor having a magnetic cylindrical body (129) with an outer peripheral wall facing said inner wall of said stator, said rotor having a rotary disk support (124) disposed entirely in a hollow interior of said magnetic cylindrical body, said peripheral wall of said magnetic cylindrical body having a series of rotor pole pairs thereon, each of the rotor pole pairs having a north magnetic pole and a south magnetic pole, and

a rotary shaft (122) mounted in a center of said rotary disk support, said rotary disk support having a plurality of through holes extending therethrough (127C Col. 7 line 29-30), said plurality of through holes being distributed unevenly so as to cause said rotor to have an unbalanced vibratory rotation (see Hong Fig. 1).

Hong discloses the claimed invention except for the stator having an inner wall entirely surrounding the rotor mounting slot and having a plurality of coil plates forming annular slots with a coil contact extending outwardly of said annular slots, said pole teeth being in electromagnetic contact with said coil contact. However, Mayumi discloses a motor stator having an inner wall (22a-23b) entirely surrounding the rotor mounting slot and having a plurality of coil plates (20a-21b) forming annular slots with a coil contact (30a-b) extending outwardly of said annular slots, said pole teeth being in electromagnetic contact with said coil contact. It would be obvious for a person having ordinary skill in the art at the time of the invention to combine the teachings of Hong and Mayumi to enable the spacing between the rotor and stator to be small and uniform, leading to increase in efficiency of the motor. It would also be easier to provide a contact to the terminals if the coil contact is projected outward away from the yoke.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Renkle et al. (US 4,381,465), Miyazawa et al. (US 5,598,046), Inariba (US 4,695,419), Inariba (US 4,052,630).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hong-Vinh Nguyen whose telephone number is (571) 270 1743. The examiner can normally be reached on Monday through Friday 8 am to 5 pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HVN 8/30/2007